

# ZHAO XIAN (KENAZ) CHAN

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## EDUCATION

Nanyang Technological University | Double-Degree Programme

Aug 2025 - May 2029

Bachelor of Computing (Honours), Computer Science | CGPA 4.75 / 5.00 (Highest Distinction, current)

Bachelor of Business (Honours), Business Analytics | CGPA 4.63 / 5.00 (Highest Distinction, current)

- **Relevant Coursework:** Data Structures & Algorithms (A+), Probability & Statistics (A+), Computational Thinking & Programming (A+), Linear Algebra (A), C & C++ Programming (A-)

## WORK EXPERIENCE

Genesis Networks Pte Ltd

May 2026 - Jul 2026

AI Business Analyst Intern

- Streamlined early delivery workflows with an internal AI “document engine” that turns one brief into research summaries, proposals, functional specs, and test cases, cutting first-draft time from a week to an hour (98%).
- Re-architected it from no-code n8n workflows into modular Python FastAPI services exposed to an LLM agent as callable tools over the Model Context Protocol (MCP), and developed a custom chat interface to support AI-assisted workflows.
- Engineered the retrieval (RAG) layer in Python: embedded documents through a self-hosted TEI service, stored vectors in PostgreSQL with pg-vector, and ranked context by cosine similarity.
- Deployed it in-cluster with Docker, Jenkins CI, and Kubernetes (Rancher) against a self-hosted LLM with no public endpoints; validated at 22/22 requirements, 51 test cases.

Spectrum Audio Visual Pte Ltd

Jan 2025 - Jul 2025

Audiovisual Engineer

- Developed a network diagnostic script to monitor IP connectivity of AV endpoints, accelerating fault analysis and cutting mean time to resolution by 33%.
- Diagnosed hardware, software, and network faults across SIT facilities in a two-person team, returning rooms to service and commissioning Crestron control logic with end-users.

## ACADEMIC PROJECTS

Pre-Flight · Champion, Autodesk x NTU Product Club Hackathon

Oct 2026

- Built an AutoCAD translation plugin that prices a job before it runs, reporting string count, cost, time, and upfront flags for text overflow so teams stop paying twice, in tokens and in rework.
- Scoped from user interviews, surveys, and competitor analysis; the prototype adds per-string selection and editing, live progress against the estimate, and an estimated-against-actual report.

Ace Plumbing Specialist · Full-stack production platform ([www.aceplumbing.sg](http://www.aceplumbing.sg))

Jun 2026

- Shipped the platform the business now runs on day to day: a public booking site plus owner and plumber portals for jobs, quotations, invoicing, e-signed chits, and bookkeeping.
- Runs on Next.js 16, React 19, TypeScript, and Supabase, with server-side PDF generation (Puppeteer), digital signatures, and PayNow QR payments; ~300 source files, 15 tables, a Vitest suite.

## CO-CURRICULAR ACTIVITIES

NBS Colour Splash

Aug 2026 - Present

Business Manager Director

- Direct the business management subcommittee for NBS’s school-wide orientation, securing and servicing the sponsorship that funds a year of events for 400+ participants.

NTU Product Club

Aug 2026 - Present

Events Subcommittee

- Applied the club’s Product Management Course in user research, journey mapping, and problem framing to win the Autodesk hackathon above; secure the sponsors that fund networking nights and run the events end to end.

NTU Arts Festival

Aug 2025 - Mar 2026

Business Manager

- Led sponsorship for a large university arts festival, converting outreach to 200+ companies into confirmed sponsors and seeing every commitment delivered through to the event.

## SKILLS

**Languages:** Python, TypeScript, JavaScript, C/C++, SQL, HTML/CSS

**Frameworks & Web:** Next.js, React, FastAPI, Flask, Node, Tailwind CSS

**Data & AI:** PostgreSQL, pg-vector, Supabase, MySQL, RAG, vector databases, embedding, LLMs, Model Context Protocol (MCP)

**DevOps & Tools:** Docker, Kubernetes (Rancher), Jenkins, GitLab, MinIO, Claude Code, Power BI, Figma, Jira

**Certifications:** CS50x (Harvard University), Analysing and Visualising Data with Power BI (NTUC)